

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|---------|---|--------------------|------------------|---------|------------------|
| S1 | 1118 | 715/513.ccls. | US-PGPUB; USPAT | OR | OFF | 2003/10/20 13:41 |
| S2 | 455 | 715/513.ccls. & parse\$ | US-PGPUB; USPAT | OR | OFF | 2003/10/20 13:42 |
| S3 | 379 | (715/513.ccls. & parse\$) and server\$ | US-PGPUB; USPAT | OR | OFF | 2003/10/20 13:51 |
| S4 | 3073894 | ((715/513.ccls. & parse\$) and server\$) @ad<"20000814" | US-PGPUB; USPAT | OR | OFF | 2003/10/20 13:52 |
| S5 | 186 | ((715/513.ccls. & parse\$) and server\$) and @ad<"20000814" | US-PGPUB; USPAT | OR | OFF | 2003/10/20 14:28 |
| S6 | 21550 | dynamic & content & generation | US-PGPUB; USPAT | OR | OFF | 2003/10/20 14:29 |
| S7 | 13505 | (dynamic & content & generation) and @ad<"20000814" | US-PGPUB; USPAT | OR | OFF | 2003/10/20 14:29 |
| S8 | 763 | ((dynamic & content & generation) and @ad<"20000814") & server & parse\$ | US-PGPUB; USPAT | OR | OFF | 2003/10/20 14:30 |
| S9 | 733 | ((((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing | US-PGPUB; USPAT | OR | OFF | 2003/10/20 14:31 |
| S10 | 733 | (((((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing) and dynamic | US-PGPUB; USPAT | OR | OFF | 2003/10/20 14:32 |
| S11 | 405 | ((((((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing) and dynamic) and (shtml html) | US-PGPUB; USPAT | OR | OFF | 2003/10/20 14:54 |
| S12 | 357 | ((((((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing) and dynamic) and (shtml html) & (optimiz\$ efficien\$) | US-PGPUB; USPAT | OR | OFF | 2003/10/20 15:04 |
| S13 | 342 | ((((((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing) and dynamic) and (shtml html) & (optimiz\$ efficien\$)) and (cache storage) | US-PGPUB; USPAT | OR | OFF | 2003/10/20 15:46 |

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| S14 | 8 | ("5924116" "5946697" "6012126" "6026413" "6065058" "6122666" "6128627" "6138141" "B1 6178461").PN. | USPAT | OR | OFF | 2003/10/20 15:21 |
| S15 | 1 | "06112196" | US-PGPUB; USPAT | OR | OFF | 2003/10/20 15:47 |
| S16 | 0 | "08936111" | US-PGPUB; USPAT | OR | OFF | 2003/10/30 16:24 |
| S17 | 1 | "05983267" | US-PGPUB; USPAT | OR | OFF | 2003/10/30 16:24 |
| S18 | 1 | "6249844".pn. | US-PGPUB; USPAT | OR | OFF | 2004/02/09 13:06 |
| S19 | 44 | "parse structure" | US-PGPUB; USPAT | OR | OFF | 2004/04/28 08:10 |
| S20 | 34 | "parse structure" & existing | US-PGPUB; USPAT | OR | OFF | 2004/04/28 08:09 |
| S21 | 0 | shtml & "parse strucutre" | US-PGPUB; USPAT | OR | OFF | 2004/04/28 08:31 |
| S22 | 3 | shtml & parse | US-PGPUB; USPAT | OR | OFF | 2004/04/28 08:31 |
| S23 | 107 | shtml | US-PGPUB; USPAT | OR | OFF | 2004/04/28 08:37 |
| S24 | 3 | shtml & parse | US-PGPUB; USPAT | OR | OFF | 2004/04/28 08:37 |
| S25 | 75 | shtml & server | US-PGPUB; USPAT | OR | OFF | 2004/04/28 08:37 |
| S26 | 1 | "5530852".pn. | US-PGPUB; USPAT | OR | OFF | 2004/04/29 08:34 |
| S27 | 0 | ouahid.in. | US-PGPUB; USPAT | OR | OFF | 2004/05/03 08:59 |
| S28 | 2 | karmouch.in. | US-PGPUB; USPAT | OR | OFF | 2004/05/03 08:59 |
| S29 | 2 | "6249844".pn. "6253239".pn. | US-PGPUB; USPAT | OR | OFF | 2004/05/10 14:10 |
| S30 | 0 | ("6249844".pn. & "6253239".pn.) & structure | US-PGPUB; USPAT | OR | OFF | 2004/05/10 14:10 |
| S31 | 503 | "structured document\$" | US-PGPUB; USPAT | OR | OFF | 2004/05/10 14:56 |
| S32 | 136 | "structured document\$" & parse | US-PGPUB; USPAT | OR | OFF | 2004/05/10 14:57 |
| S33 | 96 | "5367621".URPN. | USPAT | OR | OFF | 2004/05/10 15:37 |
| S34 | 51 | "name tune" | US-PGPUB; USPAT | OR | OFF | 2005/04/04 16:56 |
| S35 | 8435 | name & tune | US-PGPUB; USPAT | OR | OFF | 2005/04/04 16:56 |

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|-----|---------|---|--------------------|----|-----|------------------|
| S36 | 144 | S35 & (name near3 tune) | US-PGPUB; USPAT | OR | OFF | 2005/04/04 16:56 |
| S37 | 2098 | 715/513.ccls. | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S38 | 890 | 715/513.ccls. & parse\$ | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S39 | 738 | (715/513.ccls. & parse\$) and server\$ | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S40 | 3109500 | ((715/513.ccls. & parse\$) and server\$) @ad<"20000814" | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S41 | 286 | ((715/513.ccls. & parse\$) and server\$) and @ad<"20000814" | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S42 | 32933 | dynamic & content & generation | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S43 | 14511 | (dynamic & content & generation) and @ad<"20000814" | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S44 | 984 | ((dynamic & content & generation) and @ad<"20000814") & server & parse\$ | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S45 | 951 | ((((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S46 | 951 | (((((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing) and dynamic | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S47 | 555 | ((((((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing) and dynamic) and (shtml html) | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S48 | 489 | ((((((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing) and dynamic) and (shtml html) & (optimiz\$ efficien\$) | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S49 | 467 | ((((((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing) and dynamic) and (shtml html) & (optimiz\$ efficien\$)) and (cache storage) | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |

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| S50 | 8 | ("5924116" "5946697" "6012126" "6026413" "6065058" "6122666" "6128627" "6138141" "B1 6178461").PN. | USPAT | OR | OFF | 2005/07/15 14:59 |
| S51 | 1 | "06112196" | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S52 | 0 | "08936111" | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S53 | 1 | "05983267" | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S54 | 1 | "6249844".pn. | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S55 | 60 | "parse structure" | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S56 | 44 | "parse structure" & existing | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S57 | 0 | shtml & "parse strucutre" | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S58 | 5 | shtml & parse | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S59 | 169 | shtml | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S60 | 5 | shtml & parse | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S61 | 110 | shtml & server | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S62 | 1 | "5530852".pn. | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S63 | 0 | ouahid.in. | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S64 | 3 | karmouch.in. | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S65 | 2 | "6249844".pn. "6253239".pn. | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S66 | 0 | ("6249844".pn. & "6253239".pn.) & structure | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S67 | 717 | "structured document\$" | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S68 | 192 | "structured document\$" & parse | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S69 | 105 | "5367621".URPN. | USPAT | OR | OFF | 2005/07/15 14:59 |
| S70 | 51 | "name tune" | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S71 | 8927 | name & tune | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |

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|-----|---------|---|------------------------------|----|-----|------------------|
| S72 | 145 | S71 & (name near3 tune) | US-PGPUB; USPAT | OR | OFF | 2005/07/15 14:59 |
| S73 | 43 | synthesis\$ & document | US-PGPUB; USPAT | OR | OFF | 2005/07/15 15:23 |
| S74 | 26744 | synthesis\$ & document | US-PGPUB; USPAT | OR | OFF | 2005/07/15 15:23 |
| S75 | 51 | S74 & "structured document" | US-PGPUB; USPAT | OR | OFF | 2005/07/15 15:23 |
| S76 | 28 | ("5438512").URPN. | USPAT | OR | OFF | 2005/07/15 15:32 |
| S77 | 7902 | filter\$ same document | US-PGPUB; USPAT | OR | OFF | 2005/07/20 08:18 |
| S78 | 442 | S77 & "electronic document\$" | US-PGPUB; USPAT | OR | OFF | 2005/07/20 08:18 |
| S79 | 22 | S78 & (filter near document\$) | US-PGPUB; USPAT | OR | OFF | 2005/07/20 08:19 |
| S80 | 29 | ("5655130").URPN. | USPAT | OR | OFF | 2005/07/20 08:20 |
| S81 | 17 | ("5251314" "5542086" "5557720" "5583762" "5629846" "5649218" "5655130" "5708806" "5727195" "5745745" "5752021" "5875441" "5915259" "5924105" "6009442" "6014680" "6021202").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/07/20 08:24 |
| S82 | 2286 | 715/513.ccls. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S83 | 969 | 715/513.ccls. & parse\$ | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S84 | 809 | (715/513.ccls. & parse\$) and server\$ | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S85 | 3111659 | ((715/513.ccls. & parse\$) and server\$) @ad<"20000814" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S86 | 296 | ((715/513.ccls. & parse\$) and server\$) and @ad<"20000814" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S87 | 34863 | dynamic & content & generation | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S88 | 14578 | (dynamic & content & generation) and @ad<"20000814" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S89 | 1001 | ((dynamic & content & generation) and @ad<"20000814") & server & parse\$ | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S90 | 968 | ((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |

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|------|-----|--|-----------------|----|-----|------------------|
| S91 | 968 | (((((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing) and dynamic | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S92 | 567 | (((((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing) and dynamic) and (shtml html) | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S93 | 499 | (((((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing) and dynamic) and (shtml html) & (optimiz\$ efficien\$) | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S94 | 476 | (((((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing) and dynamic) and (shtml html) & (optimiz\$ efficien\$)) and (cache storage) | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S95 | 8 | ("5924116" "5946697" "6012126" "6026413" "6065058" "6122666" "6128627" "6138141" "B1 6178461").PN. | USPAT | OR | OFF | 2005/10/24 11:17 |
| S96 | 1 | "06112196" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S97 | 0 | "08936111" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S98 | 1 | "05983267" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S99 | 1 | "6249844".pn. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S100 | 63 | "parse structure" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S101 | 45 | "parse structure" & existing | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S102 | 0 | shtml & "parse strucutre" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S103 | 7 | shtml & parse | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S104 | 186 | shtml | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S105 | 7 | shtml & parse | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |

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| S10 6 | 119 | shtml & server | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S10 7 | 1 | "5530852".pn. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S10 8 | 0 | ouahid.in. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S10 9 | 3 | karmouch.in. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S11 0 | 2 | "6249844".pn. "6253239".pn. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S11 1 | 0 | ("6249844".pn. & "6253239".pn.) & structure | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S11 2 | 790 | "structured document\$" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S11 3 | 205 | "structured document\$" & parse | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S11 4 | 109 | "5367621".URPN. | USPAT | OR | OFF | 2005/10/24 11:17 |
| S11 5 | 52 | "name tune" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S11 6 | 9439 | name & tune | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S11 7 | 147 | S116 & (name near3 tune) | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S11 8 | 2286 | 715/513.ccls. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S11 9 | 969 | 715/513.ccls. & parse\$ | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S12 0 | 3111659 | ((715/513.ccls. & parse\$) and server\$) @ad<"20000814" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S12 1 | 34863 | dynamic & content & generation | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S12 2 | 14578 | (dynamic & content & generation) and @ad<"20000814" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S12 3 | 1001 | ((dynamic & content & generation) and @ad<"20000814") & server & parse\$ | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S12 4 | 968 | ((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S12 5 | 968 | ((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing) and dynamic | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |

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| S12 6 | 0 | "08936111" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S12 7 | 0 | shtml & "parse strucutre" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S12 8 | 7 | shtml & parse | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S12 9 | 0 | ouahid.in. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S13 0 | 0 | ("6249844".pn. & "6253239".pn.) & structure | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S13 1 | 790 | "structured document\$" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S13 2 | 9439 | name & tune | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S13 3 | 147 | S132 & (name near3 tune) | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S13 4 | 1 | "06112196" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S13 5 | 1 | "05983267" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S13 6 | 1 | "6249844".pn. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S13 7 | 1 | "5530852".pn. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S13 8 | 8 | ("5924116" "5946697" "6012126" "6026413" "6065058" "6122666" "6128627" "6138141" "B1 6178461").PN. | USPAT | OR | OFF | 2005/10/24 11:17 |
| S13 9 | 63 | "parse structure" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S14 0 | 45 | "parse structure" & existing | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S14 1 | 7 | shtml & parse | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S14 2 | 3 | karmouch.in. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S14 3 | 2 | "6249844".pn. "6253239".pn. | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S14 4 | 52 | "name tune" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S14 5 | 186 | shtml | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S14 6 | 119 | shtml & server | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |

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|----------|-------|--|--------------------|----|-----|------------------|
| S14 7 | 205 | "structured document\$" & parse | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S14 8 | 109 | "5367621".URPN. | USPAT | OR | OFF | 2005/10/24 11:17 |
| S14 9 | 296 | ((715/513.ccls. & parse\$) and server\$) and @ad<"20000814" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S15 0 | 499 | (((((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing) and dynamic) and (shtml html) & (optimiz\$ efficien\$) | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S15 1 | 476 | (((((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing) and dynamic) and (shtml html) & (optimiz\$ efficien\$)) and (cache storage) | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S15 2 | 567 | (((((dynamic & content & generation) and @ad<"20000814") & server & parse\$) and processing) and dynamic) and (shtml html) | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S15 3 | 809 | (715/513.ccls. & parse\$) and server\$ | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:31 |
| S15 4 | 45 | synthetis\$ & document | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S15 5 | 28399 | synthes\$ & document | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S15 6 | 54 | S155 & "structured document" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S15 7 | 30 | ("5438512").URPN. | USPAT | OR | OFF | 2005/10/24 11:17 |
| S15 8 | 8284 | filter\$ same document | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S15 9 | 471 | S158 & "electronic document\$" | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S16 0 | 22 | S159 & (filter near document\$) | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:17 |
| S16 1 | 30 | ("5655130").URPN. | USPAT | OR | OFF | 2005/10/24 11:17 |

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|----------|----|---|------------------------------|----|-----|------------------|
| S16 2 | 17 | ("5251314" "5542086" "5557720" "5583762" "5629846" "5649218" "5655130" "5708806" "5727195" "5745745" "5752021" "5875441" "5915259" "5924105" "6009442" "6014680" "6021202").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/10/24 11:17 |
| S16 3 | 30 | ("5438512").URPN. | USPAT | OR | OFF | 2005/10/24 11:31 |
| S16 4 | 2 | S163 & (rule & merge) | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:32 |
| S16 5 | 4 | S163 & (rule & synthe\$) | US-PGPUB; USPAT | OR | OFF | 2005/10/24 11:32 |



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Full text available: [pdf\(1.02 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**3** [An NF2 relational interface for document retrieval, restructuring and aggregation](#)

Kalervo Järvelin, Timo Niemi

July 1995 **Proceedings of the 18th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available: [pdf\(985.40 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**4** [A flexible object merging framework](#)

Jonathan P. Munson, Prasun Dewan

October 1994 **Proceedings of the 1994 ACM conference on Computer supported cooperative work**

Publisher: ACM Press

Full text available: [pdf\(1.40 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The need to merge different versions of an object to a common state arises in collaborative computing due to several reasons including optimistic concurrency control, asynchronous coupling, and absence of access control. We have developed a flexible object merging framework that allows definition of the merge policy based on the

particular application and the context of the collaborative activity. It performs automatic, semi-automatic, and interactive merges, supports semantics-determined m ...

Keywords: diff, flexible coupling, merging, optimistic concurrency control, undo, versions

5 Version models for software configuration management



Reidar Conradi, Bernhard Westfechtel

June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2

Publisher: ACM Press

Full text available: pdf(483.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remains a challenge. This article focuses on the version models underlying both commercial systems and research prototypes. It provides an overview and classification of different versioning paradigms and defines and relates fundamental concepts such as revisions, variants, configurations, and changes. In particular, we foc ...

Keywords: changes, configuration rules, configurations, revisions, variants, versions

6 Discovering typical structures of documents: a road map approach



Ke Wang, Huiqing Liu

August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available: pdf(1.07 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Structural matching and discovery in document databases



Jason Tsong-Li Wang, Dennis Shasha, George J. S. Chang, Liam Relihan, Kaizhong Zhang, Girish Patel

June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data**, Volume 26 Issue 2

Publisher: ACM Press , ACM Press

Full text available: pdf(648.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Structural matching and discovery in documents such as SGML and HTML is important for data warehousing [6], version management [7, 11], hypertext authoring, digital libraries [4] and Internet databases. As an example, a user of the World Wide Web may be interested in knowing changes in an HTML document [2, 5, 10]. Such changes can be detected by comparing the old and new version of the document (referred to as structural matching of documents). As another example, in hypertext authoring, a ...

8 Fine-grained revision control for collaborative software development



Boris Magnusson, Ulf Asklund, Sten Minör

December 1993 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1st ACM SIGSOFT symposium on Foundations of software engineering**, Volume 18 Issue 5

Publisher: ACM Press , ACM Press

Full text available: pdf(1.06 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a framework for controlling the evolution of complex software systems concurrently developed by teams of software engineers. A general technique for fine-grained revision control of hierarchically structured information, such as programs and documents, is described and evaluated. All levels in the hierarchy are revision controlled, leaves as well as branch nodes. The technique supports sharing of unchanged nodes among revisions, automatic change propagation, and change-orient ...

Keywords: CSCW, group awareness, incremental merge, software development, teamware, version and configuration control

9 Generating association rules from semi-structured documents using an extended concept hierarchy



Lisa Singh, Peter Scheuermann, Bin Chen

January 1997 **Proceedings of the sixth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(1.23 MB) Additional Information: [full citation](#), [references](#), [index terms](#)



10 New directions/applications: Integrated text and image understanding for document understanding

Suzanne Liebowitz Taylor, Deborah A. Dahl, Mark Lipshutz, Carl Weir, Lewis M. Norton, Roslyn Nilson, Marcia Linebarger

March 1994 **Proceedings of the workshop on Human Language Technology HLT '94**

Publisher: Association for Computational Linguistics

Full text available: pdf(680.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#)



Because of the complexity of documents and the variety of applications which must be supported, document understanding requires the integration of image understanding with text understanding. Our document understanding technology is implemented in a system called IDUS (Intelligent Document Understanding System), which creates the data for a text retrieval application and the automatic generation of hypertext links. This paper summarizes the areas of research during IDUS development where we have ...

11 Structured answers for a large structured document collection



Michael Fuller, Eric Mackie, Ron Sacks-Davis, Ross Wilkinson

July 1993 **Proceedings of the 16th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available: pdf(1.09 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



There is a simple method for integrating information retrieval and hypertext. This consists of treating nodes as isolated documents and retrieving them in order of similarity. If the nodes are structured, in particular, if sets of nodes collectively constitute documents, we can do better. This paper shows how the formation of the hypertext, the retrieval of nodes in response to content based queries, and the presentation of the nodes can be achieved in a way that exploits the knowledge enco ...

12 Index structures for selective dissemination of information under the Boolean model




Tak W. Yan, Héctor García-Molina

June 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 2

Publisher: ACM Press

Full text available: Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)




 [pdf\(2.03 MB\)](#)[terms](#), [review](#)

The number, size, and user population of bibliographic and full-text document databases are rapidly growing. With a high document arrival rate, it becomes essential for users of such databases to have access to the very latest documents; yet the high document arrival rate also makes it difficult for users to keep themselves updated. It is desirable to allow users to submit profiles, i.e., queries that are constantly evaluated, so that they will be automatically informed of new additions tha ...

13 [An algebra for structured office documents](#)



Ralf Hartmut Güting, Roberto Zicari, David M. Choy

April 1989 **ACM Transactions on Information Systems (TOIS)**, Volume 7 Issue 2**Publisher:** ACM PressFull text available:  [pdf\(2.57 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We describe a data model for structured office information objects, which we generically call "documents," and a practically useful algebraic language for the retrieval and manipulation of such objects. Documents are viewed as hierarchical structures; their layout (presentation) aspect is to be treated separately. The syntax and semantics of the language are defined precisely in terms of the formal model, an extended relational algebra. The proposed approach has sever ...

14 [CHECK: a document plagiarism detection system](#)



Antonio Si, Hong Va Leong, Rynson W. H. Lau


April 1997 **Proceedings of the 1997 ACM symposium on Applied computing****Publisher:** ACM PressFull text available:  [pdf\(807.83 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: copy detection, digital libraries, document plagiarism, information retrieval

15 [Operation-based merging](#)



Ernst Lippe, Norbert van Oosterom


November 1992 **ACM SIGSOFT Software Engineering Notes , Proceedings of the fifth ACM SIGSOFT symposium on Software development environments**,
Volume 17 Issue 5**Publisher:** ACM Press , ACM PressFull text available:  [pdf\(1.15 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Existing approaches for merging the results of parallel development activities are limited. These approaches can be characterised as state-based: only the initial and final states are considered. This paper introduces operation-based merging, which uses the operations that were performed during development. In many cases operation-based merging has advantages over state-based merging, because it automatically respects the data-type invariants of the objects, is extensible for arbitrary obje ...

16 [An integrated approach to version control management in computer supported collaborative writing](#)



Byong G. Lee, Kai H. Chang, N. Hari Narayanan

April 1998 **Proceedings of the 36th annual Southeast regional conference****Publisher:** ACM PressFull text available:  [pdf\(1.19 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 A method for monolingual thesauri merging

Marios Sintichakis, Panos Constantopoulos

July 1997 **ACM SIGIR Forum , Proceedings of the 20th annual international ACM SIGIR conference on Research and development in information retrieval**, Volume 31 Issue SI**Publisher:** ACM Press , ACM PressFull text available: pdf(1.48 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**18** Knowledge-based document retrieval in office environments: the Kabiria system

Augusto Celentano, Maria Grazia Fugini, Silvano Pozzi

July 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 3**Publisher:** ACM PressFull text available: pdf(2.14 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In the office environment, the retrieval of documents is performed using the concepts contained in the documents, information about the procedural context where the documents are used, and information about the regulations and laws that discipline the life of documents within a given application domain. To fulfill the requirements of such a sophisticated retrieval, we propose a document retrieval model and system based on the representation of knowledge describing the semantic contents of d ...

Keywords: browser, class, hypertext, instance, knowledge base, link, object orientation, user interface

19 Multiple search engines in database merging

Ellen M. Voorhees, Richard M. Tong

July 1997 **Proceedings of the second ACM international conference on Digital libraries****Publisher:** ACM PressFull text available: pdf(1.52 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**20** Efficient passage ranking for document databases

Marcin Kaszkiel, Justin Zobel, Ron Sacks-Davis

October 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 4**Publisher:** ACM PressFull text available: pdf(328.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Queries to text collections are resolved by ranking the documents in the collection and returning the highest-scoring documents to the user. An alternative retrieval method is to rank passages, that is, short fragments of documents, a strategy that can improve effectiveness and identify relevant material in documents that are too large for users to consider as a whole. However, ranking of passages can considerably increase retrieval costs. In this article we explore alternative query evalua ...

Keywords: inverted files, passage retrieval, query evaluation, text databases, text retrieval



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1 [A 3D audio only interactive Web browser: using spatialization to convey hypermedia](#)

[document structure](#)

Stuart Goose, Carsten Möller

 October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1)**

Publisher: ACM Press

Full text available: [pdf\(986.21 KB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Interactive audio browsers provide both sighted and visually impaired users with access to the WWW. In addition to the desktop PC, audio browsing technology can be deployed that enable users to browse the WWW using a telephone or while driving a car. This paper describes a new conceptual model of the HTML document structure and its mapping to a 3D audio space. Novel features are discussed that provide information such as: an audio structural survey of the HTML document; accurate positional ...

Keywords: 3D audio, WWW, browsing, document structure, hypertext, spatialization

2 [Conceptual documents: a mechanism for specifying active views in hypertext](#)



J. Nanard, M. Nanard, H. Richy

 January 2000 **Proceedings of the ACM conference on Document processing systems**

Publisher: ACM Press

Full text available: [pdf\(578.36 KB\)](#)
 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [Should anchors be typed too?: an experiment with MacWeb](#)



Jocelyne Nanard, Marc Nanard

 December 1993 **Proceedings of the fifth ACM conference on Hypertext**

Publisher: ACM Press

Full text available: [pdf\(1.10 MB\)](#)
 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
Keywords: anchoring, dynamic links, knowledge-based hypertext, virtual documents

4 Toward a definition of voice documents



M. J. Muller, J. E. Daniel

March 1990 **ACM SIGOIS Bulletin , Proceedings of the conference on Office information systems**, Volume 11 Issue 2-3

Publisher: ACM Press , ACM Press

Full text available: pdf(885.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper develops a definition of a voice document as a combination of information, structure, and affordances (or user-executable actions or utterances) for use in a voice-I/O hypermedia system. Voice documents in our experimental prototype environment, HyperPhone, are finely-grained hypermedia objects with rich interconnections of literal and virtual links, and with certain well-defined local structures. We explore issues related to nav ...

5 Expressiveness of structured document query languages based on attribute grammars



Frank Neven, Jan Van den Bussche

May 1998 **Proceedings of the seventeenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**

Publisher: ACM Press

Full text available: pdf(966.43 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Using structured types to incorporate knowledge in hypertext



Jocelyne Nanard, Marc Nanard

September 1991 **Proceedings of the third annual ACM conference on Hypertext**

Publisher: ACM Press

Full text available: pdf(1.07 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Temporally threaded workspace: a model for providing activity-based perspectives on document spaces



Koichi Hayashi, Takahiko Nomura, Tan Hazama, Makoto Takeoka, Sunao Hashimoto, Stephan Gumundson

May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**

Publisher: ACM Press

Full text available: pdf(1.37 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Multimedia document presentation, information extraction, and document formation in MINOS: a model and a system



S. Christodoulakis, M. Theodoridou, F. Ho, M. Papa, A. Pathria

December 1986 **ACM Transactions on Information Systems (TOIS)**, Volume 4 Issue 4


Publisher: ACM Press


Full text available: pdf(3.16 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

MINOS is an object-oriented multimedia information system that provides integrated facilities for creating and managing complex multimedia objects. In this paper the model

for multimedia documents supported by MINOS and its implementation is described. Described in particular are functions provided in MINOS that exploit the capabilities of a modern workstation equipped with image and voice input-output devices to accomplish an active multimedia document presentation and browsing within docu ...

9 Toward a logical/physical theory of spreadsheet modeling

 Tomás Isakowitz, Shimon Schocken, Henry C. Lucas
January 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 1
Publisher: ACM Press


Full text available:  pdf(2.76 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In spite of the increasing sophistication and power of commercial spreadsheet packages, we still lack a formal theory or a methodology to support the construction and maintenance of spreadsheet models. Using a dual logical/physical perspective, we identify four principal components that characterize any spreadsheet model: schema, data, editorial, and binding. We present a factoring algorithm for identifying and extracting these components ...

Keywords: model management

10 Two approaches to modularity: comparing the STOP approach with structured writing


 Robert E. Horn
August 1999 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 23 Issue 3
Publisher: ACM Press

Full text available:  pdf(604.76 KB)

Additional Information: [full citation](#), [index terms](#)

11 Lessons from developing audio HTML interface

 Frankie James
January 1998 **Proceedings of the third international ACM conference on Assistive technologies**
Publisher: ACM Press


Full text available:  txt(50.18 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: HTML, WWW, audio interfaces, blind, human-computer interaction

12 Designing theory-based systems: a case study

 John B. Smith, Marcy Lansman
June 1992 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Publisher: ACM Press

Full text available:  pdf(1.19 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we discuss principles for designing and testing computer systems intended to support users' thinking as they perform open-ended or ill-defined tasks. We argue that such systems inherently and inevitably implement a model of users' cognitive behaviors. Making that model explicit can provide system developers with guidance in taking design decisions. However, both model and system must be tested and refined. We discuss these principles in relation to a case study in which our g ...

Keywords: cognitive models, cognitive modes and strategies, system design, task analysis, user testing

13 The effect of data structures on the logical complexity of programs

 Farokh B. Bastani, S. Sitharama Iyengar
March 1987 **Communications of the ACM**, Volume 30 Issue 3

Publisher: ACM Press


Full text available:  [pdf\(887.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The logical complexity of a program is a measure of the effort required to understand it. We hypothesize that the logical complexity of a program increases with the increase in the opaqueness of the relationship between the physical data structures used in the program and their corresponding abstract data types. The results of an experiment conducted to investigate this hypothesis are reported. Documentation techniques for making programs easier to understand using complex data structures a ...

14 Domain analysis and framework-based software development

 Andrea Valerio, Giancarlo Succi, Massimo Fenaroli
September 1997 **ACM SIGAPP Applied Computing Review**, Volume 5 Issue 2

Publisher: ACM Press


Full text available:  [pdf\(993.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Domain Analysis is the process that identifies the relevant objects of an application domain. The goal of Domain Analysis is Software Reuse. The higher is the level of the life-cycle object to reuse, the larger are the benefits coming from its reuse, the harder is the definition of a workable process. Frameworks are excellent candidates for Domain Analysis: they are at a higher level than code but average programmers can understand them. This paper presents the main features of Sherlock, a domain ...

15 Developing a user information architecture for Rational's ClearCase product family documentation set

 Mary Hunter Utt, Robert Mathews
October 1999 **Proceedings of the 17th annual international conference on Computer documentation**


Publisher: ACM Press

Full text available:  [pdf\(822.09 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Information architecture, like information development and delivery, has much in common with its software counterpart. This paper describes how the Rational ClearCase® documentation group developed an information architecture to meet changing industry, corporate, and product requirements. During this work, it became clear that our architecture development process mapped closely to the Rational Unified Process, an iterative and incremental approach to software architecture and development ...

Keywords: ClearCase documentation, RUP, Rational Unified Process, information architecture

16 An interaction engine for rich hypertexts

 Kasper Østerbye, Kurt Nørmark
September 1994 **Proceedings of the 1994 ACM European conference on Hypermedia technology**

Publisher: ACM Press

Full text available:  [pdf\(1.04 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

terms

In semantically rich hypertexts it is attractive to enable presentation of a network of nodes and link at different levels of abstraction. It is also important that the user can interact with the hypertext using a command repertoire that reflects the chosen abstraction level. Based on a characterization of rich hypertext we introduce the concept of an interaction engine that governs the separation between internal hypertext representation and external screen presentation. This separation is ...

Keywords: aggregated views, event control, interaction engine, program development, tailorability

17 Passive capture and structuring of lectures



Sugata Mukhopadhyay, Brian Smith

October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1)**

Publisher: ACM Press

Full text available: pdf(2.15 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Despite recent advances in authoring systems and tools, creating multimedia presentations remains a labor-intensive process. This paper describes a system for automatically constructing structured multimedia documents from live presentations. The automatically produced documents contain synchronized and edited audio, video, images, and text. Two essential problems, synchronization of captured data and automatic editing, are identified and solved.

Keywords: audio/video capture, educational technology, matching

18 Complexity of sequential ATPG

T. E. Marchok, A. El-Maleh, W. Maly, J. Rajski

March 1995 **Proceedings of the 1995 European conference on Design and Test**

Publisher: IEEE Computer Society

Full text available: pdf(1.20 MB)

[Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [citations](#)

The research reported in this paper was conducted to identify those attributes, of both sequential circuits and structural, sequential automatic test pattern generation (ATPG) algorithms, which can lead to extremely high test generation times. The retiming transformation is used as a mechanism to create two classes of circuits which present varying degrees of complexity for test generation. It was observed for three different sequential test generators that the increase in complexity of testing ...

Keywords: VLSI, automatic test pattern generation, automatic testing, circuit attribute, density of encoding, design for testability, integrated circuit testing, logic testing, retiming transformation, sequential ATPG, sequential circuits, structural ATPG, test generation times, testing complexity, timing

19 Helping browsers help your applications



Lloyd Brodsky

August 1997 **ACM SIGGROUP Bulletin**, Volume 18 Issue 2

Publisher: ACM Press

Full text available: pdf(169.89 KB) Additional Information: [full citation](#), [index terms](#)

20 A data processing performance model for the OSI application layer protocols

T. Shiroshita

August 1990 **ACM SIGCOMM Computer Communication Review , Proceedings of the
ACM symposium on Communications architectures & protocols**, Volume 20
Issue 4

Publisher: ACM Press , ACM PressFull text available: [pdf\(674.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The need for data structure analysis of OSI protocols has increased with the development of OSI protocols into Application layer protocols which require a wide variety of data structures. Especially, when using high speed networks such as FDDI and B-ISDN. Application data processing is liable to be the critical performance factor in the communications based on the OSI frameworks. This paper presents a data processing model to analyze the performance of the Application data receiving process ...

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